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1   The impact of imperfect scheduling on cross-layer congestion control in wireless networks

Xiaojun Lin, Ness B. Shroff
April 2006   IEEE/ACM Transactions on Networking (TON),   Volume 14 Issue 2
Publisher: IEEE Press
Full text available: 📄 pdf(533.25 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 170,   Citation Count: 0

In this paper, we study cross-layer design for congestion control in multihop wireless networks. In previous work, we have developed an optimal cross-layer congestion control scheme that jointly computes both the rate allocation and the stabilizing schedule ...

Keywords: congestion control, cross-layer design, imperfect scheduling, mathematical programming/optimization, multihop wireless networks, stability, stochastic processes/queueing theory

2 Determination of the Registration Point for Location Update by Dynamic Programming in PCS

Chae Y. Lee, Seon G. Chang
September   Wireless Networks,   Volume 7 Issue 4
2001
Publisher: Kluwer Academic Publishers
Full text available: pdf(205.97   Additional Information: full citation, abstract, references, cited by,
KB)   index terms
Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 22,   Citation Count: 1

Location management is important to effectively keep track of mobile terminals with
reduced signal flows and database queries. Even though dynamic location
management strategies are known to show good performance, we in this paper
consider the static ...

Keywords: dynamic programming, location management, selective pointer
forwarding

3 Fidelity and yield in a volcano monitoring sensor network

Geoff Werner-Allen, Konrad Lorincz, Jeff Johnson, Jonathan Lees, Matt Welsh
November   OSDI '06: Proceedings of the 7th symposium on Operating systems
2006   design and implementation
Publisher: USENIX Association
Full text available: pdf(1.53
MB)   Additional Information: full citation, abstract, references
Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 60,   Citation Count: 0

We present a science-centric evaluation of a 19-day sensor network deployment at
Reventador, an active volcano in Ecuador. Each of the 16 sensors continuously
sampled seismic and acoustic data at 100 Hz. Nodes used an event-detection
algorithm to trigger ...

4 On Inferring Application Protocol Behaviors in Encrypted Network Traffic

Charles V. Wright, Fabian Monrose, Gerald M. Masson
December 2006 The Journal of Machine Learning Research,   Volume 7
Publisher: MIT Press
Full text available: pdf(309.38   Additional Information: full citation, abstract, references, cited by,
KB)   index terms
Bibliometrics: Downloads (6 Weeks): 18,   Downloads (12 Months): 147,   Citation Count: 4

Several fundamental security mechanisms for restricting access to network resources
rely on the ability of a reference monitor to inspect the contents of traffic as it
traverses the network. However, with the increasing popularity of cryptographic
protocols, ...

5 Coordinated enroute multimedia object caching in transcoding proxies for tree networks

Keqiu Li, Hong Shen

August   ACM Transactions on Multimedia Computing, Communications, and
2005   Applications (TOMCCAP),   Volume 1 Issue 3
Publisher: ACM

Full text available: pdf(861.94 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 85,   Citation Count: 1

Transcoding is a promising technology that allows systems to effect a quality-versus-size tradeoff on multimedia objects. As audio and video applications have proliferated on the Internet, caching in transcoding proxies has become an important technique ...

Keywords: Internet, Web caching, multimedia object, optimization problem, transcoding proxy, tree network

6 Replica allocation methods in ad hoc networks with data update

Takahiro Hara

August 2003 Mobile Networks and Applications,   Volume 8 Issue 4
Publisher: Kluwer Academic Publishers

Full text available: pdf(230.68 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 68,   Citation Count: 8

In ad hoc networks, since mobile hosts move freely, network division occurs frequently, and thus data accessibility is lower than that in conventional fixed networks. In this paper, assuming an environment where each data item is periodically updated, ...

Keywords: ad hoc networks, data accessibility, mobile computing environment, replica allocation

7 A hybrid channel allocation method for wireless communication networks

Anna Ha•, Zhengping Chen

March   International Journal of Network Management,   Volume 10 Issue 2
2000
Publisher: John Wiley & Sons, Inc.

Full text available: pdf(224.96 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 47,   Citation Count: 0

In this paper a new hybrid channel allocation method is presented, which focuses on both nominal and dynamic channel allocation. Copyright © 2000 John Wiley & Sons, Ltd.

8 An end-to-end approach to globally scalable network storage

Micah Beck, Terry Moore, James S. Plank
August   SIGCOMM '02: Proceedings of the 2002 conference on Applications,
2002   technologies, architectures, and protocols for computer communications
Publisher: ACM

Full text available: pdf(286.82   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 163,   Citation Count: 10

This paper discusses the application of end-to-end design principles, which are characteristic of the architecture of the Internet, to network storage. While putting storage into the network fabric may seem to contradict end-to-end arguments, we try ...

Keywords: IBP, asynchronous communications, end-to-end design, exNode, internet backplane protocol, logistical networking, network storage, scalability, store and forward network, wide area storage

9 On reliable broadcast in a radio network

Vartika Bhandari, Nitin H. Vaidya
July   PODC '05: Proceedings of the twenty-fourth annual ACM symposium on
2005   Principles of distributed computing
Publisher: ACM

Full text available: pdf(318.91   Additional Information: full citation, abstract, references, cited by,
KB)   index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 41,   Citation Count: 2

We consider the problem of reliable broadcast in an infinite grid (or finite toroidal) radio network under Byzantine and crash-stop failures. We present bounds on the maximum number of failures that may occur in any given neighborhood without rendering ...

Keywords: broadcast, byzantine failure, crash-stop failure, fault tolerance, radio network

10 Queueing network simulation analysis: developing efficient simulation methodology for complex queueing networks

Ying-Chao Hung, George Michailidis, Derek R. Bingham

December 2003 — WSC '03: Proceedings of the 35th conference on Winter simulation: driving innovation

Publisher: Winter Simulation Conference

Full text available: pdf(490.13 KB)   Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 25, Citation Count: 1

> Simulation can provide insight to the behavior of a complex queueing system by identifying the response surface of several performance measures such as delays and backlogs. However, simulations of large systems are expensive both in terms of CPU time ...

11 Localization in sparse networks using sweeps

David K. Goldenberg, Pascal Bihler, Ming Cao, Jia Fang, Brian D. O. Anderson, A. Stephen Morse, Y. Richard Yang

September 2006 — MobiCom '06: Proceedings of the 12th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available: pdf(336.55 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 361, Citation Count: 1

> Determining node positions is essential for many next-generation network functionalities. Previous localization algorithms lack correctness guarantees or require network density higher than required for unique localizability. In this paper, we describe ...

> **Keywords:** controlled mobility, global rigidity, localization, sweeps

12 Distributed metric calibration of ad hoc camera networks

Dhanya Devarajan, Richard J. Radke, Haeyong Chung

August 2006 — ACM Transactions on Sensor Networks (TOSN), Volume 2 Issue 3

Publisher: ACM

Full text available: pdf(954.43 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 246, Citation Count: 1

We discuss how to automatically obtain the metric calibration of an ad hoc network of cameras with no centralized processor. We model the set of uncalibrated cameras as nodes in a communication network, and propose a distributed algorithm in which each ...

Keywords: Camera calibration, bundle adjustment, distributed algorithms, metric reconstruction, sensor networks, structure from motion

13 Fast retrieval of high-dimensional feature vectors in P2P networks using compact peer data summaries

Wolfgang Müller, Andreas Henrich
November   MIR '03: Proceedings of the 5th ACM SIGMM international workshop on
2003   Multimedia information retrieval
Publisher: ACM

Full text available: pdf(378.07 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 101,   Citation Count: 6

The retrieval facilities of most Peer-to-Peer (P2P) systems are limited to queries based on a unique identifier or a small set of keywords. The techniques used for this purpose are hardly applicable for content-based image retrieval (CBIR) in a P2P network. ...

14 Synopsis diffusion for robust aggregation in sensor networks

Suman Nath, Phillip B. Gibbons, Srinivasan Seshan, Zachary R. Anderson
November   SenSys '04: Proceedings of the 2nd international conference on
2004   Embedded networked sensor systems
Publisher: ACM

Full text available: pdf(470.10 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 12,   Downloads (12 Months): 227,   Citation Count: 28

Previous approaches for computing duplicate-sensitive aggregates in sensor networks (<i>e.g.</i>, in TAG) have used a tree topology, in order to conserve energy and to avoid double-counting sensor readings. However, a tree topology is not robust ...

Keywords: query processing, sensor networks, synopsis diffusion

15 Predictive distance-based mobility management for multidimensional PCS networks

Ben Liang, Zygmunt J. Haas
October   IEEE/ ACM Transactions on Networking (TON),   Volume 11 Issue 5
2003
Publisher: IEEE Press

Full text available: pdf(979.42 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 95,   Citation Count: 10

This paper presents a mobile tracking scheme that exploits the predictability of user mobility patterns in wireless PCS networks. In this scheme, a mobile's future location is predicted by the network, based on the information gathered from the mobile's ...

Keywords: Gauss-Markov model, distance-based location management, dynamic parameter estimation, fluid flow, mobility pattern, predictive mobility management, random walk, wireless networking

16 On designing incentive-compatible routing and forwarding protocols in wireless ad-hoc networks: an integrated approach using game theoretic and cryptographic techniques

Sheng Zhong, Li Erran Li, Yanbin Grace Liu, Yang Richard Yang
December   Wireless Networks,   Volume 13 Issue 6
2007
Publisher: Kluwer Academic Publishers

Full text available: pdf(621.48 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 17,   Downloads (12 Months): 17,   Citation Count: 0

In many applications, wireless ad-hoc networks are formed by devices belonging to independent users. Therefore, a challenging problem is how to provide incentives to stimulate cooperation. In this paper, we study ad-hoc games--the routing and packet ...

Keywords: ad hoc networks, incentive compatibility, packet forwarding, routing

17 Routing protocols for efficient communication in wireless ad-hoc networks

Ioannis Chatzigiannakis, Panagiotis Kokkinos, Christos Zaroliagis
October   PE-WASUN '06: Proceedings of the 3rd ACM international workshop on
2006   Performance evaluation of wireless ad hoc, sensor and ubiquitous networks
Publisher: ACM
Full text available: pdf(262.56 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 205, Citation Count: 1

In this paper we demonstrate the significant impact of the user mobility rates on the performance on two different approaches for designing routing protocols for ad-hoc mobile networks: (a) the route creation and maintenance approach and (b) the "support" ...

Keywords: mobile networks, wireless ad-hoc

18 The impact of address allocation and routing on the structure and implementation of routing tables

Harsha Narayan, Ramesh Govindan, George Varghese
August   SIGCOMM '03: Proceedings of the 2003 conference on Applications,
2003   technologies, architectures, and protocols for computer communications
Publisher: ACM
Full text available: pdf(148.92 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 39, Citation Count: 5

The recent growth in the size of the routing table has led to an interest in quantitatively understanding both the causes (*eg* multihoming) as well as the effects (*eg* impact on router lookup implementations) of such routing table growth. ...

Keywords: IP lookups, modeling, routing tables

19 High performance wireless switch protocol for IEEE 802.11 wireless networks

Jenhui Chen, Ai-Chun Pang, Shiann-Tsong Sheu, Hsueh-Wen Tseng
October   Mobile Networks and Applications, Volume 10 Issue 5
2005
Publisher: Kluwer Academic Publishers
Full text available: pdf(859.40 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 97, Citation Count: 0

All mobile stations (STAs) in IEEE 802.11 infrastructure wireless local area networks (IWLAN) are coordinated by an access point (AP). Within the 2.4 GHz unlicensed industry, science, and medicine (ISM) band defined in the IEEE 802.11 2.4 GHz physical ...

Keywords: CSMA/CA, MAC, ad hoc, infrastructure, switch, wireless

20 An underlay aware, adaptive overlay for event broker networks

Madhu Kumar S.D, Umesh Bellur
November 2006   ARM '06: Proceedings of the 5th workshop on Adaptive and reflective middleware (ARM '06)
Publisher: ACM

Full text available: pdf(141.25 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 84, Citation Count: 0

Event based middleware typically runs on an overlay network of event brokers. The overlay network is structured on the underlying physical network, called the underlay network of the overlay. There are many dynamic changes at the underlay level that ...

Keywords: adaptation, availability, biconnectivity, distributed algorithms, event broker networks, middleware, multigraph, overlays, triggers, underlay awareness

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